

TABLE I

cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:60	Early	LPS-075	GGTGCGATCCCACTGTAGTTGTCCTTGTTGAGCATAGTTCAAGCTGTTCTGATTCC ACCAGTTAGTGGCCCAACACTGCGAGGTGCTGCCATTTCCATTCCATTACAGACG TCAGTGTGAAATTCATATAGGAAGCCACAAAGGGTGAGGAAGACCAATCTATTTTC ACTCGCCCCCTTGAGTTGCCCACTGGTCTCCGCTCCATATGCTAGAGAATACTCT CATTGCCTGCTCATTGCGATAGGGAACGCCTATGTTTTATTGTTTGCAAATACTCT GATTGGCAAACCATCAACGAAAATCGCAATTTGCTGGGGGTTCCAGAGAATAGAGT AATTGTGGAATCTGCTGTAGGATCGCACC
SEQ ID NO:61	Early	LPS-076	GGTGCGATCCCACTCCTAACCCTATTATATGTCTCCCGTCCATGGAGTCATAGA AGGAGTACGATAATATGCCCTTCAGCCAAGCGAAGTATGACTTTAGTATGGCCAGG CAGCAGTATGAAAGCACATCTTGTCTTCCAGGTGCGCATGTATAGTCTCCGGAG GCTAACAATGTCACCCAAAGCTAATTGCGCAAACGGAACCTCTGCTGATCTCCC GGGAACCTTAGGCGGAACCACCCTGAATCCACTATTCTCACCAGCGCATTTTCATCCCT TTGGTGAACGCCGCTGCCTCTGGTAGATACAGAGCTGGCTTGTCTCCACTGGAAC CCCCTTTCCGGATCGCACC
SEQ ID NO:62	All	LPS-077	GGTGCGATCCAACTGTGGTTATCGGTGGAGAGATTAAGCAATTTATTGGAGTAGC AAGTACGCTGAATTAAGGGGGTCCATCTTCAAGCAAAGGTTCTTTGGATGACTAT GTGTTCTGGAAGTGTATGGATCAATCATCTCATAAATTTTGGTAATATATAACAGA AGATTATGGCATCCAGTTAGGATGGTAGTTTCATTGAGGTATAGTAAAACTACACT AGTCTTGTGTTGCCACCCACTTTTCAGAGAAGTCAGGAGGTCTCTTGTGAATCATT GATAACTTTATGAGTGGGTACCTAAATGAAATATTTGCATCTTGAGTATATACTCAAT TGATCTTACTTGTGGATCGCAC
SEQ ID NO:63	Middle	LPS-078	CTTGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTTACG GCTGCGAGAAGACGACAGAACACCTATCATAACTTGAATTCTGATGCAAATCGGAA TTTGCCAAAACTTGAGCGGAAATATAATAGGCAATATCATCCCCGCAAGTAACAAA AAAATTGCATGAAAGCTCAAATCCTATGTGCTTTACACCTTGACTGCATACTTTCTC ATTGGAATAACATCTCTTTCTTTTCTGTCTCTCAGTCTTCAATGACGCCTGATGCT TGGTAAGGCGTCGCTGATAGCACGAGTCTTCTTGGGACGCAAATCAAGAGGCAG GTACTTCTTTTTTTGTATGCTTCTCTTAATGCGGATCGCACC
SEQ ID NO:64	Late	LPS-079	GGTGCGATCCAAGATTGTACGGCACAGGCAAATGCTGTTCTTTTTCTTAATCACGA TGTGCTTGAAGAATATGAGCGCCGATGTGAACAGATCCACAACCTGGAGTTAAAT TGGAGGAAGACAGAGCAGTGTGAATAGGAGCTTGGCAGAAATAAATAGTCTTAAG GAATCCTGGCTTCCCACATTGAGGAGTTTGGTTACCAGAATTAATGAACTTTCAGC CACAACCTTCAAGGGATGGCTGTTGCTGGAGAAGTTACACTAGATGAACATGGCAT GGATTTTGACAAGTTATGGTATTCTAATAAAAGTCAAGTTCAGGCAAACCTGGACAGT TGCAGGTATTGAATTGCTCATCATCAGTCTGGAGGGATCGCACC
SEQ ID NO:65	All	LPS-080	GGTGCGATCCGAGGGAAGCGATGTAGTCTTGCCCCAAGCGACGACCATGATCCCT TATTCTTGGGCAATATGTGCAAGACGTGGACAAATGAAGCGGTTAAAGGGAAGCTT ATGGACTATGGAATAGAGGGTCTTGAAGAGCTAACTCTAGTGGGTGATACTCAAAA TGAAGGAATAAGCCGTGGTTTTGCATTTATAGCATTTTCTACGCACATGGATGCGAT GAATGCATACAAACGCCTTCAGAGGCCAGATGTTATTTTTGGTGCTGATCGAACTG CGAATGTGGCATTTCAGAGCCACTGCGTGAGCCTGACGAAGAGATCATGGCCCA GGTTAAGTCAGTGTGTTGATGGGATCGCACC
SEQ ID NO:66	Late	LPS-081	GGTGCGATCCAGTCCTGAAAATGTACTTTACCATTTGTATAATGATGTAAAAATCTT GGCCATAGTCTGGTCAAACCAGACTGTATTGTTGCTAAAGTTATGGAAATTCTGGC CATATTTTGTCTAACCAGACTGTATTGTTGCCAAAGTTATGGGAATTCGGGCTATA TTTTTGTCTTCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGATCATAGGG TTGTCTGTGCGTGTCTCTCTTACACAACAAATTTGTGTGTTTTGCAACTATCCC ATGGGATCGCACC

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:67	Early	LPS-083	GGTGCGATCCGCTGGAAGGTGGGCAGCTGGACATCTGGGAATTATAAGTCGAATG TCAATTGCTGGGCCATCTGGGGGATGAGCAATAGCATCGGAGGCCAAGTTCTTCT GCAGCCGGGCACCAAATGCCATGTGGAGGTCTGAATCTTAGTTTGGAGGTCTGAAG TTTCAATCCCCTTGTGTTTACTCTGTTTCTGGTTTTATTTGAATAATTTGAGCAATTT AATGTGGGTCCTTAGTGCTTCTGTGGATCAGATTCTAGGGAACGCCATCCTGATAA GTAAAGATCCGAGTTTTAATGGAGATTCAATTCTATCAGAATTCCATGGTGGTTTAA ATTCCCTTGTACTGTTGATCTACGTCGCTTTGTATATCAGTGTGTGTTAAGATTTTCT CAGAATCCACAGCTTTGTTATGGATCGCACC
SEQ ID NO:68	Middle	LPS-084	GGTGCGATCCAAGCACTTACGACTCCCAACAAGGACGGGAAACTCTAAAATCGGAA AAATATCATATACTGAGGCATCAACTTTGTTGATAAACTTTAAACAAGAACAATATT TGCAGCATATTAGCCACATGCCATAATGACAAACAAATATGAGAACACTGCCTACA GGTTTGCCAAAAGCATGGCCCTCACTTTTGCCCTGAGGTCATCAGGAGCTTCTGAG GCTCGAGAAGGAGAAAAAGATTGTGTCACTTCAGGAGCTGAGGCCTCCACATCTTT TAATGATTTCGCAGCAGGCCTCTCTTTAATGTTTTCTTTAGAGGATCGCACC
SEQ ID NO 69	Early	LPS-086	GGTGCGATCCAAGGTACGAGCGAACAAGTTTCTTCAGCAAGCCACCTGGAACCTTTC CATGAGTCCAAAACAAGTTGAAGAAGGCTTCTTTGGCTACTTTTAAGATGCTGAAGT GATTGTGCTCGCCTCTTGACAGTTCAACCGCAATAACATTGGGTTTTACAAAACC GATTACCTGTTTAACCTGCTGTGCACTCTTTTTCGAAACATGACAAGTTCCAACAAG ATAAACTTCGGCCCCATTCTCGCCATTCCGCAAATAAACCACGCTCTCATCTTCTGT TATCGAACTCGAGTGCATGCCACGACGCTCAATTGCAGGATTCCAACCCCGGACTT GCGAATGGTGCAAAGCGATGCCCGTTCTGCTCAGCGATACTGCTAAAGATCGGCA GACCCGAACCAGTTTGATGCTTCCATTGCCTTAAACATCCAGAGTTTTCTTCGACC TTAAACCCTAACAAGATTACTGATTTCTGGTCCGGATGTTCACTGTCTGTTATACTT CTCACAATCTGTCACTCCTGATAATCTTCGGTATTGAACTTCATTGAATTGAATT TTCCTTCTCATTGGAATTCAATTGTACCTTGTAATGTCTGGATCCTACACTATACCA ATATTTACAGGTCTGAGTATTTTGCTGTAGTATAATTATCTTTCCTTCGGTCTCGT GTTTCCGTATTATTCGTGTAGGATCGCACC
SEQ ID NO.70	Late	LPS-087	GGTGCGATCCCGGGGGGAGGTTGATGTTCTGAGAGAATCAATGAAGGGATTTCAG CTGAGCTTGCTTTTTGAAGACGGAATGCGAACAACCAGTCATTTGCAATAGCGAG AATTCTCTTAAGCCACTGCCTGCTGGGGAGGCGAGTTCTGATTCCGGTGATTGCAT CACTCAACGGCAGCAGCAGCGGCAGAACCCTTTAGTTTCCCATGACAGGTCTCTCTG TACAAGTATCTTCTGTTATGATCTAATTCGGGTTGTTTCGATTATCGTGATGTCTC CTGTATTGACATATTAGCAGAATATTACCATGATACGATGTTAAGTGGCATGGTTTA TGCCCTGCATGTTATGTTATGGAGGAGGTGAGGCATGTGGCGCTCATGGGAGGGC CCACATGGTCCATGGACGTCTTATTAACGCATAGTCGTGAATGAAAATAGTTCAAT ACATTCAAATTCCAACACAATTTTATTACAATGGAAGTGACTTCGACTTGAATGTT CATTGAAGCATTGTCATGCACAAACAAAGTATACTAGATTAGAAGAAAATTGCAAAA AAGGACATTGTGCCCTTCTTAGTGAATATATAAAGATGTTCTTCATGCTGGATCGCA CC
SEQ ID NO:71	Middle	LPS-088	GGTGCGATCCCAATAGCCAATATTGCCTCCAAGATAGCCTAGACTGCCTTTTGCAT AGTTCTAGAAGCCAGTCACCCAACCTCCCAAAAGAAATTGCGCAATCTTCCCATC AGTTTCCCGGGTATGTGTTCTGTCACTCCCGAATTTTCTTTGGTTTTCACTAATAG ATTTCTTCCATGCACATTGCTTGTCTCCAGATCTTTTAGGTGTTTCATCCATCTCTTA GTAGTACTAGATCGATGGCTTCCAAGAGAACAGGATCATATGACACTGTTGGAAAT GTAGCTGGAGCAGCAGTTGAGCAAGTGTCCTCTAGTCTATCTATCTATGAAAGATA CACATTGTTTCTAGACATGGATATCAAATTGAAATTGCCAGAAGTCCATGAAACATT TGCCGCCTTTTGAAGAAAGGCTCCAACTGTCAGGGTTCGTTGAACATCACATGTT CTCGCTGTCTGATCCCCC

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:72	Middle	LPS-089	GGTGCGATCCTCAGGGTAATGGCCTGGCTGAATCAAGTAACAAGAATCTTATAACC ATTATCTAAGAAGATAGTAGGAGATAACAAGCGGTCTTGGGACAACAAAATCAAGT GCGCTTTGTGGGCAGATAGGATAACTAAAAAGAAAGCCACTGGTAAAAGTCCCTTT GAACTTGTCTATGGCATGGATTTGACATTACATGCCCATCTTAAATTACTAGCTTAC CAACTCCTTCAACATTTTTCTAGTGATAAAGGTGTTGTCCAAAACATGGTTGATCAA ATTGTGCAGTTGGATGAAATCCGCAGGAAAGATTTTGATAGTGCAAAAATCAGTCTA CCATTAAGAAAATCTTTGACAAATCTTCTCGGTCTAGATATTTACAGGTTGGAGATA TGGTTTTACTATGGATTCCACC
SEQ ID NO:73	Late	LPS-090	GGTGCGATCCTGCAGGCTTAGATAGTTTTCGGCGCTCCTCTGAAAGAAGCAGAGT AGGTGTCTCCACATTAGGTTGGCCTGATCCCTTGCTGCACTTGCAGCTTGTCTTA CAACATCTCCTATGCTTTGATCCAGGCTTTTCACTGACATAACTTCAGGGGCTTCCT TCTCCCAGGGCCGTGCTGCCATCCAGCGTTCTAGCCAGCTCCATCCCCAATTTGG CTTGTTTGGGTCAATTTCCATCAGCATAGGATGAGCTGCTCCTCGTGTGCTTTTCAA TGACTGATGAGAATATGCGTTATGCCAATGCCCTTTCTCGCTTCATGGCTGCTTCTT GCTTGCTTTGCAAACTAGCCTCAATTTCTCTTTGGATTGCAACTGTCATCCAATCC TTTGCTTCCATACTGGATCCAC
SEQ ID NO:74	Late	LPS-091	GGTGCGATCCCAAATGAACATTCAACATTTCGATCATGTCAAGCGCTAAATGCCTTG GCAGCTTAAAAGCTAGACTCCGCAAGTGACCCTTCTGACTTAGTACACATATTAAGA CTCATCAAGGGTCCAATTCCATGAAAAGAAATTTTAAACGGTTACATATTCACAAG AACAGCACGAGATTTCCAGATAGTCAACCACCAACTTGCCCTATCAGCCCAAATA TACTCATTCCATGTTAAAAATAGCAAATTTCCAGATAGAATGTGCGAAAGAGATCTT CATGCACCATATATGGACTCTTAAACCAGCCAAAATCTATACTGCCATGCTTGGAT CGCACC
SEQ ID NO:75	Late	LPS-092	GGTGCGATCCTGGAGAGAGAAGCAAAAAGCCTACCATCTAAATCTACATTCTAAAT CAGATATCTTTACTGTGAAAGGAATTGAATGCTGCTTCAGATATCCTACAAGAATTA AGAAGAAAAGAATGATCAACTCCAAATCAGGCAGATGGCTCAGAATTTCCCGCAGC TTCATTTTCGACGGCCTCCACAACACCAACCTCGGCAGGACGTATTACTCTGCCAT GAAGTGTATAGCCAGGCTTCAAACCACAGCCACACTGCCAGGCTGCTTACTAGCA TCTTGAACCTTGAGATACTGCCATGTTGCATATGAGGATCAAACCTCTTCATTTATTGG ATCGCACC
SEQ ID NO:76	Late	LPS-093	GGTGCGATCCCCAGAGGTTATTTTGGGTTCAAAGTATTCTACACCAGTTGACATGT GGTCATTTGCTTGCATAATTTTTGAACTGGCTACAGGTGATATGTTATTTGATCCTC AGAGTGCAGAAGGTTATGACCGCGATGAGGACCACCTTGCCCTGATGATGGAGCT TCTTGAAAAATACCTCGTAAGATCGCCTTAGGTGGGAGCTATTACGGGAACTTT TTGACAGGCATGGGGATTAAAGCACATTAGACGGCTTCGGTATTGGCCCTTGGAT CGCACC
SEQ ID NO:77	Late	LPS-094	GGTGCGATCCTAAACTGTATGTCTCCACAATTGTCTTCAATATAGAAGCAGCTACG CCCCTCCTAAGTCATCATAAGTTAAAACTTCATCTTTCCAATACAATTAACCTATCT AGCTTATCAGTTTGAATAGAGATACAAAATTACAGATAGATTAGCGAAACTGTGCC ACAAAACCTCTTCAAATTAGAAGCATGATTGTCTACAACTCCACTTCAAAAAGGAG CTGAACCAGTCCTTCGAAGGGTGTGCTTTGGTTGTGGTGGAGGTACAGAAGGCAG CAATTTCTCCAAGAACTGCTGTTTTTTAGCCTCTCATTCTCCTCTTTAAGCTGCATC ACTTCATTCTAGCTCATTTGTGTATGCCTGCTTTCTTGCCCTGGATCGCACC
SEQ ID NO:78	Middle	LPS-095	GGTGCGATCCGAGTGATGGCACAAAGAAAAGCAATGATAGAAAACAAAGAACAGGT AGCTCAGAAGGTTGAGCAACTTAGAGAGTCAACTTCGAGTTAAGGAGGGCGGGAG CAATTGGCAGATTCCTTCAAATTTGTCAAGATCTCTTGGCATGAGATGACCTTATAG GATGTTAAGGAGCAAGAGGATTCTAGGAATAATGCCAAGGATAATAAGACTAAAAG GATGCTTCAAGACCAGGTGGCAAGGAAGGCTTCTAATTCAAAGGGAGTTAGCAAC GGCAACAGATGCAATTCTAGGATCGCACC

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